

Soil Ingestion Factor (EPA, December 1991)

$$IFSadj = EDc * IRS_c / BW_c + (EDtot - EDc) * IRS_a / BW_a$$

Parameters	Values
IFSadj (Age-adjusted soil ingestion factor - mg*yr/kg*day; EPAIX, October 2004)	114
EDc (Child exposure duration - yr; EPA, December 1991)	6
IRS _c (Child soil ingestion rate - mg/day; EPA, August 1997)	200
BW _c (Child body weight - kg; EPA, August 1997)	15
EDtot (Total exposure duration - yr; EPA, December 1991)	30
IRS _a (Adult soil ingestion rate - mg/day; EPA, August 1997)	100
BW _a (Adult body weight - kg; EPA, August 1997)	70

Air Inhalation Factor

$$IFAadj = EDc * IRA_c / BW_c + (EDtot - EDc) * IRA_a / BW_a$$

Parameters	Values
IFAadj (Age-adjusted inhalation factor - m^3*yr/kg*day; EPAIX, October 2004)	8
EDc (Child exposure duration - yr; EPA, December 1991)	6
IRA _c (Child inhalation rate - m^3/day; EPA, August 1997, avg. 0-6 yr olds)	8
BW _c (Child body weight - kg; EPA, August 1997)	15
EDtot (Total exposure duration - yr; EPA, December 1991)	30
IRA _a (Adult inhalation rate - m^3/day; EPA, August 1997, avg. males & females)	13
BW _a (Adult body weight - kg; EPA, August 1997)	70

Dermal Factor

$$DFadj = EDc * DF_c / BW_c + (EDtot - EDc) * DF_a / BW_a$$

Parameters	Values
DFadj (Age-adjusted dermal factor - mg*yr/kg*day; EPAIX, October 2004)	361
EDc (Child exposure duration - yr; EPA, December 1991)	6
DF _c (Child dermal factor - mg/day; EPA, July 2004)	560
BW _c (Child body weight - kg; EPA, August 1997)	15
EDtot (Total exposure duration - yr; EPA, December 1991)	30
DF _a (Adult dermal factor - mg/day; EPA, July 2004)	399
BW _a (Adult body weight - kg; EPA, August 1997)	70

Dermal Factor Adult Resident

$$DF_a = SA_a * AF_a$$

Parameters	Values
DF _a (Adult dermal factor - mg/day; EPA, July 2004)	399
SA _a (Adult surface area - cm^2; EPA, July 2004)	5700
AF _a (Adult adherence factor - mg/cm^2*day; EPA, July 2004)	0.07

Dermal Factor Child Resident

$$DF_c = SA_c * AF_c$$

Parameters	Values
DF _c (Child dermal factor - mg/day; EPA, August 1997)	560
SA _c (Child surface area - cm^2; EPA, July 2004)	2800
AF _c (Child adherence factor - mg/cm^2*day; EPA, July 2004)	0.2

Dermal Factor Adult Industrial Worker (Grounds Keeper)

$$DF_a = SA_a * AF_a$$

Parameters	Values
DF _a (Adult dermal factor - mg/day; EPA, July 2004)	66
SA _a (Adult surface area - cm^2; EPA, July 2004)	3300
AF _a (Adult adherence factor - mg/cm^2*day; EPA, July 2004)	0.02

Dermal Factor Adult Utility Worker

$$DF_a = SA_a * AF_a$$

Parameters	Values
DF _a (Adult dermal factor - mg/day; EPA, July 2004)	660
SA _a (Adult surface area - cm^2; EPA, July 2004)	3300
AF _a (Adult adherence factor - mg/cm^2*day; EPA, July 2004)	0.2